



FUME HOODS AND POWERPOINTS

A look at academic lectures and campus research

Metallurgy lecture focuses on development of computational models

Patrick Beseda
Staff Writer

"I consider this a premiere school for materials science and am honored to be here," said Dr. Suresh Babu, one of the world's pioneers in computational weld modeling. Currently an associate professor at Ohio State University and a Colorado School of Mines distinguished scholar, Dr. Babu presented last week on the microstructure evolution of welding and the use of computational and characteristic models for predictive purposes. With a Ph.D. from Cambridge University, Dr. Babu is a leading researcher in the metallurgy field, specializing in computational welding and modeling. With over 14 years of leadership experience, Babu has paved the way for computational modeling tools to be used for research and in the industry of metallurgy and materials science. If the implications of computational modeling were unclear, Dr. Babu made them perfectly visible, "If we can predict the properties using models, the number of experiments can be minimized." In the past, scientists have had to use mountains of data, which took time and money, in order to model the behavior of a metal. Using the tools that Babu and fellow metallurgists have been developing over the last decade, experimentation can be kept to a minimum, while accurately predicting the microstructure of a material during the welding process. According to Babu, "There are many unanswered questions; that is one of the challenges in the field today." He presented many differ-

ent cases and examples of how the models are being used to solve the mysteries in the field of metallurgy. Experiments involving the appearance and disappearance of both martensite and austenite were applied to the usage of a computational model that could predict the microstructure and thereby allow the metallurgists to optimize the welding process for those materials. Babu continued the presentation with a discussion on how computational and characteristic models will be used in the industry in the future. He made an example of steel pipelines and the increasing demand for stronger, thinner, and less expensive solutions. Using computational models, metallurgists can give "quick answers for rapid deployment with minimum experimentation," said Dr. Babu. The implications of this technology have not yet been fulfilled, but, according to Babu, "There is hope for using these kinds of tools in the industry." Dr. Babu concluded the presentation by reiterating a few points from the larger spectrum. "These tools exist, it's how we use them that is important. The goal of this talk wasn't to tell you that these tools are here and to look at all the things we have accomplished." His goal was from a larger scale. Babu encouraged students to use the modeling tools and, most importantly, to challenge them. "Dream about this," he said to the students in the room. "[This purpose here] was to introduce these technologies so that students can dream about them for their researches, whether it is BS, MS, or your Ph.D."

Featured Shell lecturer discusses alternative, biological hormone delivery

Anant Pradhan
Staff Writer

The recent development of the Biochemical Engineering program has brought an array of individuals presenting and interviewing for job openings in the Chemical Engineering department. As a speaker for the Shell lecture series and a potential candidate, Dr. Eric Nuxoll of the University of Minnesota's Pharmaceuticals Department presented his research in the area of hormone delivery via biological micro-electro-mechanical systems (BioMEMS) last Thursday. While the topic at first seems rather complex, the actual concept is surprisingly simple. The problem is that, "Some individuals find themselves unable to produce Gonadotropin-Releasing Hormone (GnRH), a hormone that is essential for human sexual development and reproduction," said Dr. Nuxoll. While the hormone can be administered artificially, it faces a rather challenging obstacle. "The drug must be injected roughly every hour into the body," said Dr. Nuxoll. Working with his advisor, Prof. Ronald Siegel, he has been working on a solution to this problem. "We are attempting to develop technology to assist these individuals so that they may maintain a normal way of life," he said. "The delivery device, on the scale of a quarter, relies on a constant blood

sugar supply to inject hormones into the body periodically." Thus, the body would naturally regulate the injection of the hormone. Proteins within the body, however, might infiltrate the device, effectively fouling it. The challenge is to develop a membrane capable of allowing the drug into the body while preventing the body's natural defenses from entering the device. To solve the problem, Dr. Nuxoll and his team have used block co-polymers to develop nanoscale membranes for transporting the drug into the body. "The co-polymers are simply three different polymers covalently bonded together," said Dr. Nuxoll. "The different polymers don't like to mix and try to separate, but since they're linked together, they can't separate very far. The minority polymer will form nanoscale domains within a sheet of the majority polymer. By selectively etching away the minority polymer, we get a nanoscale screen that should let the small drug molecules through while blocking the larger proteins." Unfortunately, any artificial material produces an immune response by the body. "Thousands of researchers around the world are attempting to address just that problem," said Dr. Nuxoll. For this reason, he has chosen to focus on the protective screening of the device through nanoscale membranes. "I've got several ideas for that sys-

tem that I'd like to pursue at Mines." "The lecture offered an interesting insight into the field of BioMEMS technologies, a field I previously had little knowledge of," said Justin Chichester, a graduate student. Most attendees of the seminar were graduate students and professors within the Chemical Engineering department. Following the seminar, Dr. Nuxoll spoke to several undergraduate students answering personal and technical questions. When asked what the geekiest thing about him was, he laughed and pulled out his wallet. "I always keep a wallet sized periodic table with me in case I ever need to know the atomic weight of an element," he said. If Dr. Nuxoll comes to Mines, he hopes to teach classes in Separations and Mass Transport as well as a Controlled Release elective course. The latter is a common elective at many engineering institutions, and a course Mines currently lacks. Following the discussion, Junior Meghan Huenefeld said, "He appears to have a lot to bring to Mines and is nerdy enough to fit right in." Whether future students will have the opportunity to be taught by Dr. Nuxoll will remain a mystery for some time to come. The Chemical Engineering department still has several other candidates to interview for the two Biochemical openings on the campus.

Variety of physics research initiatives showing promise

Jason Fish
Content Manager

Laser scanning, microscopic channels of fluid, and thin film structures were the subjects of Tuesday's Physics colloquium. Two graduate students and a professor in the department presented ten-minute talks on their research to an audience of professors and fellow students. Kraig Sheetz started off the hour with his work in using lasers to build three-dimensional images of biological samples. Sheetz is a PhD student and conducts his research in the Microintegrated Optics for Advanced Bioimaging and Control (MOABC) center as part of the Squier Group, an on-campus laboratory. Still in the initial stages, Sheetz said the goal is to use a six-beam scan from a KGW laser to probe

tissue samples and construct a detailed 3D image. KGW refers to the chemicals used to produce the beam inside the cavity, in this case Potassium (K), Gadolinium (G) and Tungsten (W). The work is funded by a grant from the National Institute of Biomedical Imaging and Bioengineering. Next, Dawn Schafer, another PhD student, spoke about studying the behavior of fluid inside small channels, called microfluidics. Schafer and a team of researchers used Coherent Anti-Stokes Raman Scattering (CARS) to carry out their experiments. "CARS produces orders of magnitude better signals than spontaneous Raman scattering," said Schafer. The technique allows observers to examine the energy levels of individual atoms in a fluid and identify them, even when mixed with other species. In Schafer's work,

diluted propanol and methanol streams were mixed in a microfluidic channel and studied with CARS. "We can get a good chemical fingerprint with this method," said Schafer. A grant from the National Science Foundation funds the microfluidics research. Thirdly, Tining Su, an assistant research professor in Physics, presented his recent work in thin film technology, as part of the Semiconductors Research Group on campus. Tining uses Nuclear Magnetic Resonance (NMR) imaging to study how different elements in thin films interact and their structure characteristics. "We can find a concentration of defects in these materials," said Tining. This thin film research has applications in solar cell technology, improving performance of conventional systems.

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World News in Brief

Abdullah Ahmed, Asst. Business Manager

CUBA - After the formal resignation of ex-President Fidel Castro last week, Cuba's National Assembly has selected his younger brother, Raul Castro, 76, as his successor. Fidel Castro had ruled Cuba since leading the revolution of 1959; however, after undergoing a major surgery in 2006, it had become difficult to keep the country intact. The new president has vowed to continue to build the country's shattering economy.

TURKEY - The Turkish Army has led a cross-border, ground offensive last Thursday against the Kurdish Worker's Party, PKK, in Northern Iraq. Since 1984, the PKK has fought to gain a Kurdish homeland in south-eastern Turkey and northern Iraq, losing over 30,000 people in the process. The US has urged Turkey to shorten the campaign since Iraq is still suffering from the post-war outcomes.

RWANDA - British politician and ex-Prime Minister Tony Blair has offered to help Rwanda to build a stronger economy through privet investment. Using his international status, Mr. Blair is hoping to attract investors to Rwanda. He told the press that "The vision is clear and good... [And] any help that [he] can give in that is a privilege."

SAIPAN - A Japanese man was arrested for the murder of his wife, which took place 27 years ago. The businessman and his wife had visited the US in 1981, where they were shot at by alleged robbers. After surviving the incident, the man collected over \$1.5M from the life insurance policy he had previously purchased for her. He was convicted in 1994, but a courted order overturned the sentence in 1998. Now, a new investigation is being held.

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CSM, WISEM introduce high-school,
senior girls to world of engineering

Jesse El-Aayi
Staff Writer

Last Thursday, the Colorado School of Mines Admissions Office and the Women in Science, Engineering and Mathematics (WISEM) program sponsored "Introduce a Girl to Engineering Day," in honor of National Engineering Week.

The purpose of the three-hour event was to acquaint accepted, female, high-school seniors with the vast possibilities and opportunities at Mines. Members of the CSM Chapter of the Society of Women Engineers (SWE) volunteered their time to be team leaders, teaching the girls how to think through a problem as an engineer.

CSM is conducting a strategic plan to increase its female student body. "The problem isn't getting girls to apply to Mines," stated Assistant Director of Admissions, Sarah Andrews, who helped to coordinate the event. "But rather to confirm their enrollment. These young women are weighing their options heavily, and between their admission and the enrollment date, we may lose the most girls." With CSM being such a specialized university, many girls feel that they will be missing out on other opportunities.

In the eyes of many in Admissions, programs such as McBride, Humanitarian Engineering and BELS are very popular with women.

The fifty high school girls, who visited from all across the state, worked on an engineering design project. They had an hour and fifteen minutes to build a chair that could be sat on, using only cardboard, heavy string and scissors. The designs ranged from a small, classic stool to chairs with an ottoman and a TV tray. The girls then had lunch and toured the campus.

"The event proved a huge success," said Andrews. "Engineering has been a male dominant industry and engineering schools are male dominant as well. Mines is 22% female and I feel that my primary responsibility is to help that percentage go up. I hope this event helped many of these top female students to open up their eyes and see what this school is all about." After the program, Cara O'Brine of Air Academy High School in Colorado Springs stated, "Today has completely solidified and qualified my choice in choosing CSM for my college experience."



Passing the Torch: CSM upperclassmen offer advice, as younger generations attempt to solve an engineering problem.

This Week at
Mines

Heather Boyd has been promoted to the Director of Enrollment Management.

Mines has been mentioned as being a major draw for incoming technology companies, including ConocoPhillips. Colo. Gov. Ritter noted that CSM, as well as CU, CSU, and NREL, will benefit from the incoming company.

The Rocky Mountain News reported that CSM President Bill Scoggins, a former Exxon Mobile executive, has been a solid fit for the institution. This comes at a time when the University of Colorado has undergone significant conflict over its decision to hire a president from the oil industry, what CU professors are calling "outside academia."

The City of Golden has assembled a "walkability task force" to provide recommendations for ways to make the city more walkable.

Company hands over cash



ALEC WESTERMAN / OREDIGGER

Alec Westerman Staff Writer

"It does pay to go to the career fair," commented Francis Nutting, after handing a box containing \$211.63 to Colorado School of Mines student Andrew Gerlings.

Career Day participant Mincom set out transparent box containing cash to be given to the person with the closest guess. Gerlings was the lucky guesser. Since he has a job lined up with Chevron in Huston, he claims he only went to Career Day to offer a friend "moral support."

While the box of cash at Mincom's booth attracted the attention of Gerlings, he didn't do any calculations or thorough analysis; he simply guessed \$212.05. Considering other guesses ranged from \$100 to \$2,000, Andrew did fairly well.

Francis Nutting, Director of Human Resources at Mincom, met with

Andrew at the Career Center to hand off the cash box. Mincom, according to the Career Day Guide, "is a leading global software solutions and services provider to asset-intensive industries." They are looking to hire or intern students interested in mining and computers; there are currently internship openings with the company.

Before the hand-off, Jean Manning-Clark, of the Career Center, set out balloons to make the atmosphere more festive; she blamed this apparent excess on her status as a mother.

The box contained change and wadded bills covering every denomination from \$50 downward, including rare two-dollar bills. About the crumpled state of the bills, Mr. Nutting joked, "You'll have to iron those." Gerlings replied, "No, I'll run them through the laundry." In addition to the cash box, Gerlings was gifted a ledger on which he could record how he spent the money.

Chemical researcher plays with protocells

Lily Giddings Content Manager

For decades scientists have tried to recreate the conditions in which life began, to find the formula that led, ultimately, to civilization. Sheref Mansy, from the University of Denver, has done in-depth research in this field, and presented his findings at the Chemistry and Geochemistry seminar on Friday, February 22nd.

Mansy is trying to create a genetic polymer inside a simple, prebiotic organism called a vesicle. This means that he must avoid the use of complex biological compounds such as proteins, because, as Mansy explained, "they just were not available in pre-biotic conditions." Scientists study the composition of meteorites, finding compounds that would have been present during prebiotic conditions, and therefore were present during the first stages of the development of living organisms.

In the interest of finding how tenacious the early organisms would have been, Mansy and a team of

researchers studied the formation of vesicles from micelles, creating a cell-wall type structure in a double ring formation. "The wall is semi-permeable due to the presence of transient pores, created by the structure of the head group," Mansy said. However, in order for life to form, compounds must be maintained inside the vesicle, and the vesicle must be able to contain chemical reactions to allow replication of a genetic polymer. Mansy's vesicles were found to meet both of these requirements.

Further research found that these vesicles, while not previously expected to withstand changes in temperature, were surprisingly durable. "While it's not feasible to expect that these vesicles would survive thermal activity such as that present at the time that living organisms began to develop, we were able to show that vesicles are more thermally stable than others expected," Mansy explained. Furthermore, the vesicles were able to withstand temperatures that would melt DNA.

After many trials to find out what

affects permeability, the researchers began to study the permeability of nucleotides, one of the building blocks of life. Pure nucleotides were unable to cross the membrane, but mono- and di-phosphate nucleotides were. The size of the chain on the nucleotide also effects permeability and a chain shorter than four nucleotides is not desirable. "The most thermally stable, and permeable compound was found to be an 18-acyl chain," said Mansy.

After all this research, it was necessary to identify whether the nucleotides could be persuaded to replicate themselves, like RNA and DNA. The reaction occurs much more slowly inside of a vesicle than outside of one, but it still occurs. "While [this research] is far from creating a genome, it's a good step," explained Mansy.

Mansy explained that "the conditions were far from those in which life was formed, but we created a reasonable semblance of [those conditions], enough to suggest that our theories about how life was formed are practical."

Mountaineering Museum Grand Opening

Akira Rattenbury Staff Writer

Saturday, February 16's ribbon cutting ceremony at the American Mountaineering Center (AMC) signaled the grand opening of the first mountaineering museum in North America.

"Golden now has the finest mountaineering museum in the world" said Jacob Smith, Mayor of Golden. "This is the culmination of years of vision, dedication, and hard work."

Located at 710 10th Street, in downtown Golden, the Bradford Washington American Mountaineering Museum (BWAMM) contains roughly 3,800 square feet of ex-

hibits focused on the culture, history, and stories of mountaineering.

"The dream started about a decade ago," commented Nina Johnson, the Museum Director. "Funding sources varied and included foundations, companies, organizations, the National Geographic society, the Colorado Mountaineering Club (CMC), the American Alpine Club (AAC), and thousands of individuals."

Restoration of the former high school gymnasium into the museum cost roughly \$4.2 million. "It has been amazing watching that ratty old gym transform into the astonishing museum it is today," said Tom Beckwith, Publication Manager for the Colorado Mountain Club.

More than 70 people attended the ribbon-cutting and first public tour of the museum. Numerous exhibits displayed a variety of tactile, visual, auditory, and written features. The designers "worked closely with the two clubs to make the stories and ideas, and create an experience with lots of variety," said Abbie Chessler, design director for Quatrefoil Associates, the museum's designer.

The museum hosts unique exhibits and artifacts, including a 135-square-foot model of Mount Everest featuring the climbing routes of early expeditions. The "Schoening ice ax," a symbol of camaraderie, heroism and mountaineering ethics,

was also on display. "The ax was used to save five men's lives on the 1953 attempt of K2," said Jim Donini, President of the AAC, describing one of the extraordinary pieces on display.

The museum currently houses two temporary exhibits until May 2008. The interactive "Journey Through the Arctic National Wildlife Refuge" features the works of photographer and adventurer Jonathan Waterman. "Arctic Survival: Inuit People, Art and Culture," includes a unique selection of Inuit prints and carvings.

It is "the only mountaineering museum in this hemisphere, and soon will have the largest mountaineering library in the world," said David Hite, longtime CMC member and current Board member.

The 8-year old AAC mountaineering library, also located in the American Mountaineering Center, will soon receive a large private collection of mountaineering literature, which will make the library the largest of its kind in the world. "It really is a cultural resource," noted Gary Landeck, Library Director, speaking of the library's one-of-a-kind array of mountaineering resources.

"The museum isn't just for climbers," said Johnson. "There is something for everyone, including children."

The museum expects to attract over 20,000 visitors annually. Information can be found at www.bwamm.org



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TECHBREAK

And I'm back with a list this time.

Be it you didn't know Google tricks.

1. Searches for you and lets you know what's new.

With Google Alerts, you can sit back while Google combs the web for all the information on that particular topic, then e-mails you when there are new news stories or search results on that topic. I work with a company and they frequently send me Google Alerts to check out on the industry, and the alerts are very decently on-topic.

2. Looks in Books

Search for a famous book passage and you might be surprised to see the text of that book, in part or in whole, right on Google's Book Search service. You get the golden oldies like *A Tale of Two Cities* in full, and portions of newer texts that range from snippets to useable sections. I actually read a big chunk of an NHV assignment right off of Google's book catalog, and we're talking a very recent book here.

3. Pays for all your stuff in one place

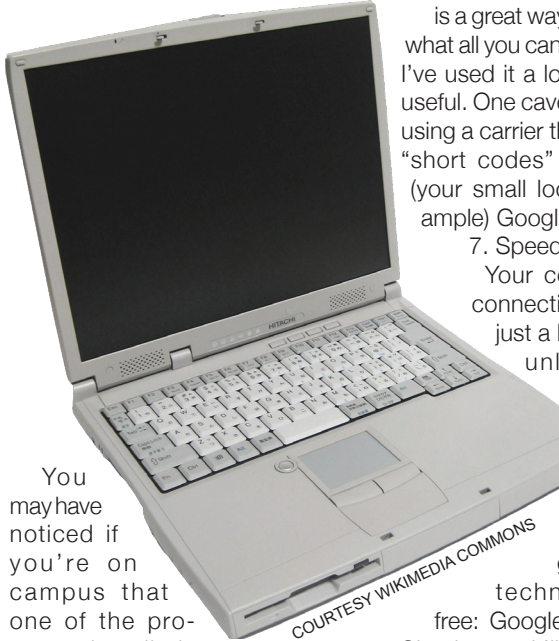
Google Checkout is sort of like PayPal, except not really. Trust me, I've seen it from both a buyer's and a seller's point of view. But it does do one thing very well: simplify. No matter where you're buying from, it literally takes just inputting your username and password, then maybe three more clicks, and you've paid for whatever you wanted to buy. Some online sellers even give you a discount when using Google

Checkout because it is actually quite inexpensive for the seller money-wise like it is for the buyer time-wise.

4. Becomes your notebook

Google Notebook gives you an organized space to write notes as you surf the web. It's easy to clip stuff from the web, and whether you're using the full-blown web app or just a miniature version stuffed into a corner of your Firefox window, it's really handy. Research note-taking made simple, anyone?

5. Serves as a 3D modeler



You may have noticed if you're on campus that one of the programs installed on most campus computers is Google SketchUp. It's a great tool for 3D modeling of landscapes and more. I actually talked with a landscaping business that used it as their main tool for landscape

layout, if memory serves me. Oh, and once you're done with your beautiful virtual Mines model, you can plunk it right down onto Google Earth for all to see.

6. Gets info by text or free 411

Don't have web on your cell phone because it costs way too much? I don't blame you, especially when you can get all the info you need by a quick text to GOOGL (46645) or a quick call to 1-800-GOOG-411. Texting the word "help" to Google SMS, as it is called, is a great way to start figuring out what all you can do with the service. I've used it a lot and it's very, very useful. One caveat though: if you're using a carrier that doesn't support "short codes" in text messages (your small local carriers for example) Google SMS won't work.

7. Speeds up your web

Your computer's internet connection can always be just a bit more optimized, unless you're one of the few uber-techno-web-geeks that are most certainly out there. For the rest of us, Google will give you a super-techno-web-geek for free: Google Web Accelerator. Simply put, it'll give your internet an extra nudge to make it just that much faster for web browsing, and we all like fast web browsing.

8. Checks out Mars

Google Mars (currently in the Labs section, as are items 9 and

10) gives you a Martian equivalent to Google Maps. Except instead of map-style, satellite-image and hybrid, you get elevation color coding, or visible\infrared viewing options. The images are pretty high-resolution, too.

9. Serves as your web host

With Google Page Creator, aka GooglePages, you can slap together a decent-looking website in no time flat. I actually use Page Creator quite a bit when I just want a rather static website and don't want to do a lot of dirty work to get it up there. Oh, and if you want more than just a simple website, you can grab for your domain name, for free, Google Apps, a bunch of different Google services tailored for your particular website. So instead of johnnie@gmail.com, you can be johnnie@smithie.net. You can even buy the domain name from Google for a reasonable

... with Ian Littman

\$10 per year for minimum pain. 10. Gives you more of something similar

Okay, lousy headline but if you put a few random authors into Google Sets and hit Grow Set, out comes a ton of very good suggestions along the lines of what you put in. You know, put in Coleridge, Steinbeck, Twain, Poe and Shakespeare and get out Dickens, Austen, Dickinson, Alcott, Hughes, White, Shikibu (huh?), Anderson, Bronte and Stevenson. Or put in Dodge, Chrysler, Chevy, Ford and Lincoln, then get stuff like Toyota, Honda, Nissan, Cadillac, Pontiac, Buick and Jeep. Hey, this stuff can be very useful.

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The highs and lows of having a 401(k)

Financial expert discusses how to protect yourself from stock market decline

James Larsen
Guest Columnist

Eight years ago you might not have been thinking about the stock market, but it's a good bet your parents were. That's when the market began its last serious decline. A financial writer by the name of Vitaly Katsenelson has proposed that there was only one great depression and every market decline since could be considered a range-bound market. He might be right, but regardless of what you call it, anyone having money in a 401(k), IRA or even a college investment account began to see a serious erosion of their principal. And the erosion was sneaky. In 2000 the market declined and recovered, declined and recovered, stair-stepping its way down into 2001. 9/11 further shocked the financial markets and the decline continued into 2002 and early 2003, until it finally began its recovery.

It is not uncommon to talk with someone who was invested in the market during this period and hear them lament that they suffered a 30-50% decline in account values. "How could they let that happen?" you wonder. My own experience may have been fairly typical of the average investor. I knew that within my 401(k) I had the ability to move my investments from mutual funds invested in stocks to mutual funds invested in bonds, but I hesitated. Every uptick of the market seemed to be the beginning of the recovery. I felt that if I just held on, the market would bounce back and

begin making me money again. I actually held on for two years and suffered a 30% drop in the value of my 401(k). By the spring of 2002 I'd had enough and switched my holdings to bond funds, effectively putting a stop to my losses.

Why would I and thousands of others hesitate to reposition our investments and suffer significant losses? There are many reasons, but to me the most fundamental reason is not having an investment strategy or financial plan. It is easy to make contributions to a 401(k) or IRA, but without a strategy the best you can hope for is a constantly increasing stock market that drives up the value of your account. That's just not reality.

In the last article, I mentioned allocation and risk tolerance. They are key components to a sound investing strategy and the first step toward crafting that strategy. Understanding your personal aversion to risk, or your acceptance of it, is Job#1 and it's easy to do. Many financial institutions offer risk tolerance questionnaires on their web sites. The questionnaires are often posed as multiple choice exams. They describe a scenario and ask how you feel about it or what you would do in reaction to the scenario. For

example, a questionnaire might ask how you feel about a three month period of declining account values. Choices range from, "I can live with it" to "I'd change immediately."

Obviously, each individual has their own set of experiences and education that create an emotional response to considering a three month decline. A person's age and financial condition also contribute to the response. Once you have an understanding of your own ability to tolerate the ups and downs of the market, you can take the next step and set out a financial strategy. This could be for your retirement account, your emergency fund or any other accumulation goal you seek to accomplish.

"It is easy to make contributions to a 401(k) or IRA, but without a strategy the best you can hope for is a constantly increasing stock market that drives up the value of your account."

For example, you've just graduated and found a job. The employer offers a standard benefit package, including a defined contribution retirement plan (401(k)). You could

have a strategy of achieving a set dollar value by the time you reach retirement age, or you could plan to use some of the retirement account to fund a child's college education or buy your first home. These last two goals were mentioned only because they constitute allowable

reasons for taking an early withdrawal from a qualified retirement account without incurring a penalty.

Once you have set down a defined goal, meaning it is quantifiable,

has a defined time period and is realistic, you can then craft a strategy to achieve that goal. Of course, you should also understand the potential impact of outside influences such as inflation and emergencies that may temporarily detour your journey toward that goal. One aspect of the strategy is defining the investment return you will need to achieve over time. If you have a high risk tolerance and time on your side, you may elect to invest in high-risk, high-return products and ride out the ups and downs of the market. If, on the other hand, you tend to be risk-averse, you may elect to invest in stable, low-risk, low return products. The danger here is that returns must outperform inflation plus taxes.

For most, if not all, of us a well-defined asset allocation may be the best solution. It should help build value as the market rises and protect that value as the market falls. For example, an investment of

\$100,000 placed in a single market index fund reflecting only large cap growth stocks, such as the S&P 500 Index would have produced earnings of \$914 for the period

1/31/2000 to 12/31/2005. Had that investment been diversified by allocating 20% to International stocks as reflected in the MSCI World Ex USA Index, the earnings would have increased to \$6,202. By diversifying further into 17% large cap value stocks as reflected by the Russell 1000



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Value index, that same \$100,000 investment would achieve earnings of \$14,074 for the period. Adding bonds, mid-cap funds, small-cap value funds and commercial real estate has the effect of producing \$60,700 in earnings and minimizing portfolio volatility during the entire period.

Here's the cautionary note: The use of indexes is for the purpose of illustration only. Investment results vary and the cited earnings are indicative of only index performance. But, while I and others like me struggled to break even by the end of 2005, there were some who may have invested wisely in a well-diversified portfolio and slept well at night.

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Did it make you think?

"Movies For Thought" explores relationships

Rachel Wix
Staff Writer

CSM Democrats, CSM Libertarians, and Sigma Lambda hosted "Movies For Thought" on Friday, Feb. 22. The movies addressed the way our society responds and treats individuals of different sexual orientations, while also showing how these individuals handle the reactions of those around them.

TransGeneration is a TV mini-series following four college students as they deal with school and their gender transition. Following them throughout the school year, the camera crew captures the surprise, uncomfortable moments, and the acceptance found as these students come to accept their identity. Watching the episode, the viewers saw the different ways the students handled their identity. Some of them were very confident and unafraid of

telling others about the reason a camera crew was following them, but others felt that they would be judged, so they hid their true self from everyone. After the show, the conversations were intriguing and varied, from whether or not the military would accept a man after having his transition operation, to how another of the show's participants will finally explain to her friends her identity.

"It's interesting to see how culture affects how people change. Seeing how people adapt to their feelings and others'," commented one of the CSM students.

A short break between the two movies allowed the viewers to enjoy the free pizza and soda available. The second movie was *The Broken Hearts Club*, a romantic comedy following a group of guys, who happen to be gay, as they wander their way through a trying summer.

Unlike many movies involving gay men, *Broken Hearts* doesn't include men who are AIDS victims or the best friends of fashionable women. Instead it addresses the members of the gay community just as they are, living

their lives and looking for the real thing. "It shows people with different orientations being just people," one viewer commented. "I think it's good to realize that."

Reactions in the audience ranged from understanding to the knowledge that back home "I'd be considered even more of a heretic now."

"I thought it a really nice change of pace from what we normally see at Mines," Eric Charrier offered.

This feeling seemed to be consistent with the rest of the viewers.

"I think that at Mines we're so worried about other things that we try to push gay and other topics under the rug," said one student. "But it's still something we need to think about."

These statements seem to show a new trend amongst some of our community towards thinking about some of the more controversial topics of today's world. When asked about how she feels the Mines community handles different orientations, Laura Yanovich responded with "I don't think it's a problem here on campus."

The next movie night will be on Friday, March 7.

Wellness Day is coming

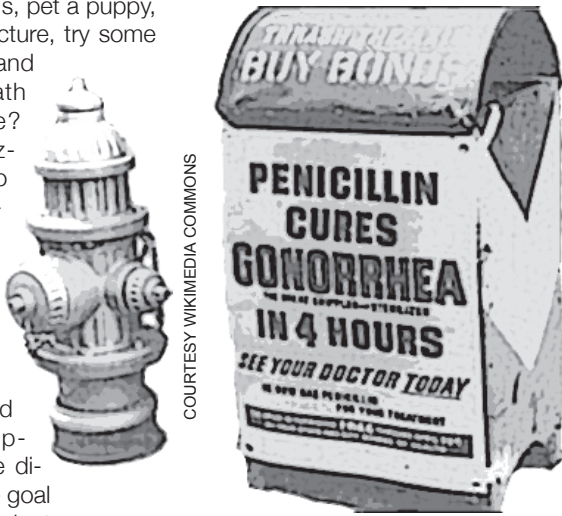
Sandra Sims
Student Development

After 18 years of experience calming student nerves, Colorado School of Mines will host its annual Wellness Day this Friday, from 10:30 a.m. to 1:30 p.m. in the Student Center Ballrooms.

Each year, a variety of local health & wellness experts gather in the Ballrooms of the Student Center to share their wares with the CSM campus community. This event is a wonderful opportunity to sample new products, get a massage, participate in health screenings and safety demonstrations, and just have a great time! Where else can you

taste organic foods, pet a puppy, dabble in acupuncture, try some yoga or Pilates, and meet a naturopath all in one place?

Event organizers continue to promote the 5 dimensions of wellness – physical, emotional, social, intellectual and spiritual – through the day. CSM has invited vendors who represent all of these dimensions with the goal of broadening student views of wellness. Everything from traditional and alternative medicine, safety and prevention, outdoor recreation and travel, healthy eating



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and responsible pet ownership will be represented. Students will be eligible to win great prizes if they visit tables representing all 5 dimensions.

Green Tip of the Week

Natalie Wagner
Guest Columnist

This week's theme is: **Skip the antibacterial!**

When buying hand soap, dishwasher soap, shower gel, or even laundry soaps, beware! Within the last couple of years companies have advertised "Antibacterial" on soaps in order to convince us that it will somehow clean better (sadly, not really true), and then we will buy these instead of the normal alcohol based soaps.

At the end of the day, it is really best to buy locally produced, artisan soaps with great ingredients that are good for your skin, the economy, and the environment.

As a case in point, Cryptosporidium is a bacterium that is resistant to chlorine. This is a big problem for water treatment

plants in America, because chlorine is the preferred method used to treat our water for infection.

In 1993, Milwaukee had 403,000 people become ill because of Cryptosporidium. The treatment plant shut down, and this outbreak attributed to more than 100 deaths. My point is that the more we use antibacterial soaps, and chlorine for that matter, the more likely bacteria will adapt to it.

So, if you're big into cleaning really, really well, use an alcohol based soap. Just because it says "Antibacterial" doesn't mean it cleans any better.

To further demonstrate the severity of this situation, read on: Second to caffeine, antibacterial compounds are the most common compounds found in the Mines wastewater.

Antibacterial compounds do just as their name states, kill bacteria. Although that may seem a good thing, since we only ever hear about the "BAD" bacteria,

there are also good bacteria.

Obviously, you don't want to get E. coli from your kitchen, but you do want the bacteria in your septic tank to continue to be active. They are a vital component in treating wastewater and ensuring your septic tank, garden compost pile, intestines, and general world as a whole work properly.

By dumping antibacterial components down the drain we are not only creating less efficient septic tanks but we are also making bacteria resistant to our most prevalent antibiotics.

To top it off, adding another chemical compound into the wastewater makes it difficult to clean the water sufficient for human consumption (for the next person to drink).

Who really wants to drink water full of extras, like antibacterial stuff, caffeine, miscellaneous pharmaceuticals, hormones, and more?

I'm sure it would at least taste better without the added antibiotics.

“Put a spell on you” Sailesh hypnotizes campus

Greg Smith
Staff Writer

“That was the coolest [stuff] I’ve ever seen!” said first time hypnotist attendee Matt Vigil. “My favorite part was the sleep gun by far! That one dude just kept dodging it and the girl just saw the bullet bank off of the walls and finally hit her – [freaking] awesome.”

On Friday 22nd, CSM hosted renowned hypnotist Sailesh in the Student Center Ballrooms. MTV Europe has rated him the number one hypnotist in the world. The audience seemed to agree.

Visiting Colorado College student Jay Hobbs weighed in. “It was amazing!” he said. “I had no idea Mines students had such cool entertainment!”

The show’s success may be attributed to Sailesh’s theatrics. From his believable, “hypnotist” appearance to the clever music he used

as transitions and mood setters, the show was undoubtedly entertaining. Much to the enjoyment of the collegiate audience, the show was completely uncensored.

One sketch during the performance featured audience members who were really nervous at a job interview; the more nervous they got, the more they would swear. One girl commented on stage that she wanted to give all the kids at the daycare sedatives.

Hundreds of students turned out for what

many consider to be the greatest Mines Activity Council event of the year. In the words of Sailesh, “Your eyes are getting heavy. Sleep in 3, 2, and 1.”

GREG SMITH / OREDIGGER



MUSIC REVIEW

Mountain Goats have *Heretic Pride*

Jake Rezac
Staff Writer

In 1991, John Darnielle began recording folk-rock songs, under the name The Mountain Goats, which sounded like they were recorded on a boom box (as some of them were). However, strikingly intelligent and poignant lyrics, coupled with Darnielle’s urgent, bleating vocals, have created a cult following around The Mountain Goats (in which Darnielle is the only consistent member). In each of the nineteen albums released by The Mountain Goats, Darnielle explores the intensity of emotion experienced by people in desperate situations, while describing the human condition with marked accuracy. The Mountain Goat’s newest album, *Heretic Pride*, is no exception.

The three Mountain Goat albums released before *Heretic Pride* were all heavily influenced by Darnielle’s life – the only autobiographical work in Darnielle’s extensive catalogue. *Heretic Pride*, however, returns to traditional Mountain Goats fare, focusing on overarching themes and expertly crafted characters. Despite the album’s fictional nature, the songs on *Heretic Pride* describe characters who very well might exist on Earth somewhere. In each track, Darnielle turns a three minute song into a story which would take a less talented writer ages to tell.

Heretic Pride begins with “Sax Rohmer #1” – a song named after writer Arthur Ward, whose novels describe master criminal Dr. Fu Manchu. This is the first song of many in the album which reference monsters and evil characters from literature and movies – H.P. Lovecraft’s monster Cthulhu, the mythical Tianchi Monster, a swamp creature, and Michael Myers are all mentioned in songs. “Sax Rohmer #1,” along with all those songs with evil characters in them, creates a pressure-filled atmosphere, with pulsing drums and

minor chords issuing from the guitar.

These songs are sharp contrasts to the second song on the album, “San Bernadino.” It is one of a number of songs contently describing a failing relationship. In the song, a violin and viola emit graceful, melodic notes which contrast a constant, pizzicato plucking of the guitar. This juxtaposition provides an excellent background to the lyrics of the song, which are those of a man recounting the good moments of a failed marriage.

“Heretic Pride” and “So Desperate” are particularly good tracks on the album. The former, after which the album takes its name, is a reconciliation of the album’s two themes, which involve both monsters and the satisfaction which comes from ending a failing relationship. The song is told from the perspective of a heretic who is being burned for his sins. This narrative is told over relaxing, even uplifting instrumental music, and the words said by the heretic are even inspiring: “I felt so proud to be alive,” he says in the refrain. “So Desperate,” on the other hand, seems – rightly – out of place on the album. It is the only track which contains no instruments other than guitar – which plays very melodic arpeggios behind Darnielle’s warm, longing vocals. The song, though dissimilar to others on the album, provides an emotional climax to the album.

It’s been over five years since the last lo-fi Mountain Goats album – something which longtime fans occasionally deplore. *Heretic Pride* could very easily silence those complaints. Although the album was recorded in a modern studio and edited for audio quality, the emotional impact is just as significant as any earlier Mountain Goats albums and *Heretic Pride* is one of The Mountain Goat’s best.

TOP TEN POLITICAL FILMS

Wendy Shortridge
Guest Columnist

10. *All the President’s Men*, 1976. Frankly, I don’t remember as much about this film as I do the nation’s single-minded focus on the Watergate scandals that brought down a President. I will never forget sitting with my outraged father on the porch watching the Senate hearings during the summer of 1973. The film accurately traces the work of two intense Washington Post reporters, Carl Bernstein and Bob Woodward, who break the story that breaks Nixon. Watch it for the history.

9. *The Candidate*, 1972. Written by a former speechwriter for the 1968 Eugene McCarthy presidential run, the film foreshadows the current political arena with its cynical exploration of image over substance in candidates. Handsome Robert Redford is running for senator in California. What do we do now?

8. *Primary Colors*, 1998. I was genuinely surprised by this Mike Nichols film. Good performances with a stand-out by Kathy Bates as the “Dustbuster” and a revealing look at how personal scandals are firing the media and shaping the election process.

7. *Roger and Me*, 1989. Michael Moore’s first film spotlights the economic destruction of Flint, Michigan after GM closes its plant which drives Moore’s many comic attempts to contact Roger Smith, GM CEO to redress the situation. Simultaneously humorous and painful but no one gives a stronger voice to the disenfranchised working class better than Moore.

6. *Mr. Smith Goes to Washington*, 1939. Beloved Frank Capra

film with a bravura performance by Jimmy Stewart as Jefferson Smith, the naïve youth leader sent to Washington. Corruption abounds then as now but then the manipulators were party hacks providing pork to local despots in contrast to today’s corporate lobbyists buying Congress and selling out the American people. Look for another standout performance by Claude Rains as the senator who sells out.

5. *Fahrenheit 9/11*, 2004. Moore’s masterpiece and the largest grossing documentary film of all time. We are shown the Bush policymakers on film, deliberately deceiving the nation as to Saddam Hussein’s threat to our national security and links to Al-Qaeda. As revealed this January, Bush and seven of his top officials are on public record for lying 935 times to the American public about why we needed to invade Iraq. Where was the outraged Bob Woodward when we needed him?

4. *Dr. Strangelove or How I Learned to Stop Worrying and Love the Bomb*, 1964. Stanley Kubrick’s ruthless satire of the Cold War and the military/industrial complex President Eisenhower warned us about. Peter Sellers is a triple threat in his finest performances as an English captain assigned to an Air Force general gone mad, a former Nazi nuclear weapons scientist and the besieged President of the US. “Gentlemen, you can’t fight in here! This is the War Room.”

3. *Judgment at Nuremberg*, 1961. Stanley Kramer’s powerful examination of the Nazi horror was groundbreaking in its time as the Holocaust was not a buzz topic in the early Sixties. Stellar performance-

es by Burt Lancaster, Maximilian Schell, Richard Widmark, Marlene Dietrich, Montgomery Clift and Judy Garland are eclipsed by Spencer Tracy’s craggy-faced judge demanding an answer to the unanswerable. Moving film with a background story that explores how political expediency turns bitter enemies into unwelcome but necessary allies.

2. *Gandhi*, 1982. Dedicated director Richard Attenborough spent almost 20 years working to get this film made. A mesmerizing performance by Ben Kingsley as Gandhi is at the heart of this epic overview of a lifetime spent in political and spiritual struggles. Great supporting cast combined with expressive visuals and enchanting music make this film an unforgettable experience. For an invaluable look at Gandhi’s life, read *Mahatma Gandhi and His Apostles*, available at the Arthur Lakes Library.

1. *National Treasure: Book of Secrets*, 2007. It looks like an episode of the CBS reality show, *The Great Race* (Both are produced by Jerry Bruckheimer). The film is a big budget piece of nothing fluff except for one brief dialogue that makes it all worthwhile. Well, almost.

Nicolas Cage as Ben Gates: And because you’re the President of the United States, sir. Whether by innate character or the oath you took to defend the Constitution or the weight of history that falls upon you, I believe you to be an honorable man, sir. *US President*: Gates, people don’t believe that stuff anymore. *Ben Gates*: They want to believe it. And so do I.

Geek of the Week

...Amy Dubetz, Senior: Chem. Eng & Chemistry

Hilary Brown
Asst. Editor-in-Chief

[Oredigger] When did you first realize that you were a geek?

[Dubetz] When I would get excited that we had math homework in elementary school.

What did you enjoy doing as a kid?

A lot of pretty geeky things - my life goal was to be on “Where in the World is Carmen Sandiego.”

When did you know you wanted to be an engineer?

I still don’t know if I want to be an engineer! What’s your favorite geek joke?

The functions are having a party and everyone is there: x^2 , $4x$, $\ln(x)$, etc... e^x is looking sad in the corner, so $\sin(x)$ goes over to him and asks what’s wrong. “I’ve got no friends,” complains e^x . “Just come over and join us, then; integrate a little!” $\sin(x)$ replies. At this, e^x breaks down and sobs, “It won’t make any difference!”

What are your favorite classes at Mines?

I really liked O-Chem and Fluids... and McBride classes.

What organizations are you a part of?

ASCSM, Tau Beta Pi, McBride, E-Days Committee,

cross-country/track teams, and tutoring.

What is the geekiest thing you own?

I don’t know if this counts as geeky, but I do own a life-size cardboard cut-out of John Kerry.

What are your plans for graduation?

I want to go to graduate school for renewable energies and eventually go work in biofuels. I want to live/work abroad for a while, too.

What do you like to do in your spare time?

I like running and playing the piano.

How do you like to spend your summers?

I’ve had a few internships that I’ve actually really enjoyed. And I always want to have time to take a few trips and watch baseball.

Who inspires you? Do you consider them geeks or not? If not, why?



HILARY BROWN / OREDIGGER

Geek and Chic? Dubetz surveys an open pit mine in Mongolia. Even on-site, she is never without her fashionable sunglasses.

My parents and several of my professors here. I don’t consider them geeks, but I do really admire their intelligence and all that they’ve achieved.

Mines Lacrosse devoted to new season

Matthew Pusard
Staff Writer

At an institution like Mines, commitment can take a lot of different forms. Some of it has to go to classes in order to keep up with the material and to not fail. Some can come in the form of commitment to relationships or friendships which require constant upkeep here. More is available for the student activities and causes that students believe in. This last form of commitment is quite evident in how the Mines Club Lacrosse team does business.

Team captain and goalie Michael "Stonewall" Stone is one such example of this commitment. Stone, going into his 12th year of playing lacrosse in all different levels, seems to have a year round commitment to the sport. In addition to playing in both the fall and spring seasons for the club sport, he also keeps busy in the offseason. "I've gone to countless national camps, played in youth and men's summer leagues, refereed more than my fair share of games, and I'm venturing into coaching this year as head coach of the women's team and assistant coach of a youth team this summer," explained Stone. Stone has earned All-Conference Awards in his two years with the team and won First Team All-American in his freshmen year. He is also the secretary for the Rocky Mountain Lacrosse Conference (RMLC). In addition, Stone is the Fool's Gold editor here at the Oredigger and a main reason for its existence.

Stone is not the only player devoted to the sport. According to the team website, at least eight

other players on the men's side have six or more years of previous experience. Included in this total are Long Stick Midfielder Steve Wheeler (going into his 13th year), Defenseman Corey Lamb (10th year), and Attackman Mat Hollerbach (9th). There is also no lack of leadership on the team. In addition to Stone going into his third year as captain, graduating senior AJ Tupper serves as Co-Captain (his second year as such) and team president. Stone described Tupper

as a strong leader and said of him, "Never have we had so many of these great things together in one season!"

The defensive captain for the squad is Trent Noonan, a defenseman going into his 8th year of lacrosse and second year as captain. "A strong and visionary force on the field, he is known for his quick and sharp checks across the league," said Stone. "He is without a doubt our best defender and best mind on the field."

Offensively, the team's captain is Taylor Embury, a transfer student from Virginia. Embury plays Midfielder and Attack and is serving in his first season as captain. "Taylor is loud and proud with his eye-blurring shot for all of defense to fear," boasted Stone.

Stone was understandably excited about the team's chances this season. Mines has shown steady improvement in each of the past three years, ever since the arrival of head coach Dan Hunter. "2004 season: Mines

didn't win a single game," described Stone. "2005 season: Mines went 3-8. 2006 season: Mines went 6-6. Last year, we went 8-5. This year can only get better!"

Stone added, "We... have three returning All-Americans on the team. Never has the team had so much talent. Never has the team had so much great weather for practice time. Never has the team had such a great coach, Dan Hunter, who is in his fourth year of his inaugural 'four year plan.' Never has

ve we had
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on!"

team had such great leadership from players on and off the field. Never has the team had so much support from the Club Sports Council and Club Sports Department. Finally, never have we had so many of these great things together in one season! This is definitely a season of firsts, but it won't be a season of lasts."

There is also a youth movement going on within this team, as is the trends with many Mines sports clubs lately. "This year, we gained 13 new players," said Stone. This group includes 10 freshmen and three transfers, including Matt Alfano from Fort Lewis, who played with Stone in 8th grade. The fall season, or Fall Ball, offered an opportunity for the team to break in the new players and get them through what Stone calls "Freshman Timid Syndrome." "This is usually where a new player

plays college ball for the first time and only passes instead of taking a shot every now and then. They're just too worried they will screw up," Stone explained. "Fall Ball was good, where we played in two tournaments, a couple of regular games and a very successful alumni game to end it."

This past weekend, the new season for the Mines Men's Lacrosse squad dawned. Before the game, Stone described the team's goals for the year. "Our goal this season is to take one game at a time," Stone said. "Our first game and first conference game is tomorrow at the IM fields against Metro State College. We've been concentrating on them for a while now and once we beat them, we'll move on to the next team. Overall, our goal is to make it to playoffs, win that, then go to nationals in Texas."

The season started out well with a 14-4 win over Metro State at home on the IM fields. Mines shut out Metro throughout the first half and it was 13-1 halfway through the fourth. Stone got 16 saves with an 80% save percentage on the day and got the game ball while Midfielders Mike Renseberger and Ryan Marsters and Attackman Dan Janke scored hat tricks. Mines dominated penalty-wise, receiving 4 to Metro's 15, and Metro fell apart with bickering and a lack of preparation for Mines's press defense. A larger-than-normal, screaming crowd also worked in the Orediggers' favor.

Mines's next game is a scrimmage against the CU Buffalos. The Buffs are a top ten team in Division I while Mines is in Division II. Stone

examined the matchup. "The way we're looking at it is like this: We've got nothing to lose, everything to prove, and it gets some field experience for plenty of guys. We're the severe underdog in this case, but it should be a good game none the less," he said. "Also, the last time Mines scrimmaged CU was three years ago in Coach Dan Hunter's first season, Mines lost 13-1. This should be a good measure of where the team has gone since then."

After the CU matchup, the lacrosse team plays the University of Nebraska at Omaha on Saturday on the IM Fields.

This starts off Mines's conference schedule very promisingly. The Orediggers have five in conference games this season and, according to Stone, the team expects to have to win four to achieve a playoff berth. Although Mines made the playoffs in each of the past two seasons, the system has changed and their conference is competing for two slots up for grabs. "Montana State and UNC will be our two biggest games to reach that goal," said Stone.

On the other side of the sport, Mines Women's Lacrosse starts practicing on Monday, Feb 25th. This will be the team's first season of existence and the team has finally garnered enough support to be signed into existence. Practices will be mandatory for team members and the squad's website lists only a few legitimate reasons to miss practice: "Family emergencies, studying for a big test, you're dying or dead."

The women will play six games this season, starting March 30th, but will be ineligible for playoff competition.



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The power of positivity and consciousness

Fabian Brunetti
Staff Writer

“You see the 75% of progress that you have made and want a pat on the back... I see the 25% of progress you could have made, and want to give you a kick in the ass.” Quotes and sayings have one purpose: to inspire people to achieve the impossible and reach their highest goals in life. The former statement not only conveys the antithesis of this philosophy, but also seeks to demean the very righteous, positive individuals in society.

Negativity has one purpose, and that is to suck the life force out of its host. The former quote was taken from what a certain negative individual said at this school. This individual is not a student and is not a teacher. No, this person is one of the coaches working for the Colorado School of Mines.

A coach is an individual who seeks to improve and ultimately sharpen the mental and physical skills of an athlete. Doing this requires long durations of devotion, a love of the sport, and, ultimately, positive feedback. Sports, like everything else, are 90% mental and 10% physical. Your mind can potentially ruin all of your chances to succeed if you let it. Positive feedback is the most important fuel for success in any aspect of life, especially sports.

With positivity guiding your life,

you feel happier, more alive, more willing to participate in the daily activities no matter how trivial they may be.

Happiness and positivity are two life forces the mind embraces without hesitation. You feel an imaginary aura around you when positive reinforcement dominates the psyche. Nothing is impossible in this state of mind. You feel like you can do anything, and you do it with such grace, it feels almost natural, even

“A good coach is a source of enlightenment and positivity, not a cesspool of negativity. A good coach connects with his athletes in a positive spiritual way to better them as competitors.”

if it's your first time. This is the state of a conscious, healthy mind dominated by positive reinforcement.

In contrast, negativity can also inundate one's mind. Negativity is like a very lethal parasite sucking the aforementioned life force out of your body. You feel completely different when negative reinforcement dominates your psyche. Animosity spreads to the deepest parts of your organs. You feel sluggish; you feel you cannot achieve success in even the simplest of activities. The mind does not embrace this evil; it is engulfed and seized by it. Being negatively criticized, unacknowledged, and treated

poorly leads to this vulnerability in the brain. Dark energy spreads to the weakest parts of your body at the time of despair, and seeks to exhaust them at whatever cost.

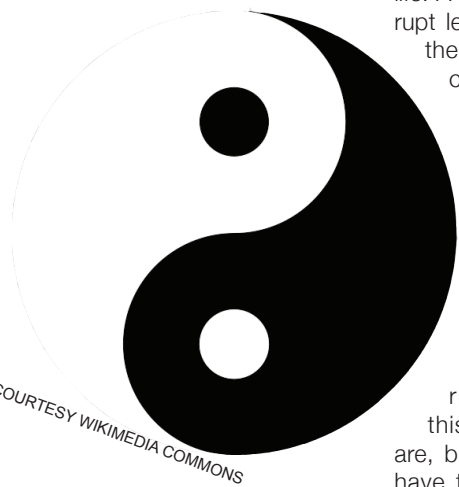
This quote, along with other courses of action, has been discreetly utilized to ridicule and demean the members of a certain group on this campus. This is not the way to reinforce a triumphant environment, especially when emanated from “the leader.”

A good coach is a source of enlightenment and positivity, not a cesspool of negativity. A good coach connects with his athletes in a positive spiritual way to better them as competitors. He does not merely shove the fundamentals, drills, sets, and competitions down their throats. He gets to know his athletes in a positive way. He helps his athletes reach their goals by listening to them and then formulating a plan to meet the individual's specific needs. There is only selflessness in his actions, no narcissism, condescension, or belittlement.

A truly committed coach cannot fake these characteristics, because the athlete will eventually find out. It takes a lifetime to earn someone's respect, and a split second to lose it all. A coach must

keep an athlete's respect for all eternity by being brave, truthful, and unselfish. A good coach will never make an athlete feel low, and if the athlete is feeling sad, the coach will do whatever it takes to reinforce a positive environment.

People are led astray by malicious people covering themselves in a dishonest façade every day.



The fact that these people commit these heinous acts to sabotage a diligent, passionate, and affectionate athlete is just plain sick. This is a very sadistic way to live your time on this earth. A person has one shot at this game called life, and the fact that some people just neglect the immense wonder of the world and all its inhabitants is just upsetting.

As long as there is good, there must be evil. This is a fact seen in all

Eastern and Western religions. The Yin-Yang symbolizes this paradox quite well: black and white, with no grey in between. Of course, there is a grey area in this world. It is the group of people that follow their heart and can look at a situation in an abundance of ways.

A person who only looks at black and white has not truly experienced life. A person who listens to a corrupt leader only sees one part of the plethora of scenarios and characters inhabiting this earth. One must break away from this conformity and treat everyone the same. People must be treated in a positive way. Positivity goes a long way; it is the backbone of the teachings of all the religious leaders throughout history.

The group of people ridiculed by negativity on this campus know who they are, but the question is: do they have the heart to stand up and really profess their faith and break away from negative conformity?

Do they have what so many religious leaders, philosophers, scientists, writers, musicians, creative thinkers, etc., had before them? I leave this group and all with a quote from 1984 by George Orwell, “Until they become conscious they will never rebel, and until after they have rebelled they cannot become conscious.”

Duffy's corner | Golden transportation crusade

Kevin Duffy
Content Manager

The City of Golden is on the precipice of inescapable change. Resisting the forces of metro-Denver, the Regional Transportation District (RTD), and even the Colorado School of Mines for quite some time, the City is clearly losing the development battle. Light Rail expansion, Beltway completion and CSM capital construction are no longer fringe ideas, but rather concrete movements and confirmed plans. Mines must embrace these changes in Golden to maintain and expand the institutions influence.

Denver's transportation system

has, for many decades, lagged behind other major metropolises. Metro-area residences may be hoodwinked by the cities highly-livable, small-town atmosphere, but the continually growing population illustrates a different reality.

Coupling the expanding population with increasing national prominence, the need for efficient transportation solutions becomes imminent. The political leaders of Golden, however, have long rejected the idea that these solutions include them.

Such stubbornness has not stopped RTD from pursuing the FasTracks Light Rail System. Approved by voters in 2004, the 12

year project includes, amongst other items, an expansion of current Light Rail service to include U.S. Highway 6 and end at the Jefferson County Government Building in Golden.

After years of bombardment by the Golden City Council's seemingly endless crusade against development, the argument is finally becoming moot. Preliminary planning and construction have already begun; Golden can drag its feet but the project will see completion nonetheless.

FasTracks service to Golden could not be a more welcome change for CSM students. Although most will have long graduated by the expected 2013 completion

date, the campus community recognizes the need for clean and efficient mass-transit, especially vehicle-free access to Denver.

“Mines cannot allow the backwards thinking prevalent in the Golden City Council to rule the future of the institution. By constantly fighting Denver and RTD, the Council does a great job of marginalizing themselves and the city.”

A far more controversial proposal, and consequently more distant change, is the completion of the Northwest C-470 beltway. Circumscribing the Denver-Metro area by completing the full C-470 beltway is not a new idea. It was first proposed in the 1960's, receiving various swells of support in subsequent years. With a booming population and congestion woes, the completion of the Beltway is now receiving renewed support throughout the state.

CSM would be wise to endorse those voices that champion the beltway's completion. Not only would the highway bring additional development to the

area, thus increasing the quality of student life, but accessibility to the city would increase as well.

The Metro area transportation proposals can also be viewed through CSM's current development plans. The school is currently collecting hundreds of dollars per student each semester to finance a proposed parking structure and construction of several new academic buildings on campus.

The additions to the campus indicate the expanding nature and prominence of the institution. This goal will best be seen to fruition along side the transportation solutions envisioned by the City of Denver.

Mines cannot allow the backwards thinking prevalent in the Golden City Council to rule the future of the institution. By constantly fighting Denver and RTD, the Council does a great job of marginalizing themselves and the city. Consequently, Mines will be isolated with Golden if the CSM community does not assert their support for Denver's transportation initiatives.



The declining prospects of a superpower

United States faces debts, decreased influence at home and abroad

Andrew Aschenbrenner
Opinion Editor

The United States of America likes to call itself the greatest country in the world. Coming from any place else, that would be considered extremely pretentious. But the USA grew enormously on the heels of World War II, a bastion of democracy ironically pulled out of depression by a Fascist-instigated war.

Military spending and overall competition over innovation from a 40-plus year Cold War gave rise to the United States, and the US stood alone after the dissolving of the Soviet Union in 1991.

The USA was, is, and will continue to be a destination for the world, despite lacking history and experience of other nations. It has the largest gross domestic product of any nation on earth. It was the first country in the world to gain its independence through colonial revolution.

Millions and perhaps billions of people around the world look up to the United States as a "beacon of freedom." It's easy to see why, for the nation's politics and hard-fought endorsement of freedom have led the world for nearly two centuries.

But now the nation seems to be faltering. It has been a long 17 years as the only so-called "superpower," and the effects of budget deficits, de-

caying infrastructure, and the trading gap have taken their toll.

The economy is stagnating, with questions of a looming recession, the government seems to be losing its grip on its global status, US policies are damaging to civil rights, and dissatisfaction with the direction of the country is resulting in a major loss of influence around the globe.

Our history is still holding on, however. But how will it last if there

"Are we still a 'superpower?'

Does the United States still have an identity as a nation of freedom? Is the USA really the greatest country on earth?"

is no change in direction? Are we still a "superpower?" Does the United States still have an identity as a nation of freedom? Is the USA really the greatest country on earth?

At heart, we are still the nation founded by a group of incredibly courageous colonists back in 1776. They recognized from the beginning, even in a time of inequality and slavery, that "all men are created equal," and that everyone had basic, fundamental rights, including "Life, Liberty, and the pursuit of Happiness."

In the Constitution, adopted eleven years later, they included the Bill of Rights, which epitomizes what this country was

founded on, and what this country should be all about. The nation's founding document is an extraordinary guide to government, being extremely adaptable to different circumstances.

Despite the foundation that the "Founding Fathers" gave to us, we have left that document behind. We still operate under the illusion that this country has not slipped in status or greatness. Here's a "Fox News Alert" for you: this country already has.

Other countries have passed the US in terms of domestic programs and quality of life. Our health-care, pension, and poverty assistance programs are the laughing-stock of the civilized world. In a quality of living study released last year by Mercer Human Resource Consulting, the highest-ranked US city was Honolulu, followed by San Francisco. Twenty-seven world cities ranked higher, including virtually every major Canadian city.

Of course, surveys are subjective, but look around you at how our government treats our citizens. Holes in government let people fall through the cracks. Other major countries have problems, for sure. But they reach out a hand, not just in times of crisis, but continually.

Other countries aren't better because of their resources, or their ingenuity, or their hard

work. I truly believe the US still leads in those vital but unmeasurable categories. Where the US lacks is in the human dynamic. More than any other country, US citizens are isolated as people.

The overwhelming attitude is "me first, and then I'll see what I can do." There is no feeling of community in much of this country. Sure, it exists in a few small patches, but it is generally lacking. Many are overly concerned with making themselves great, without

"As a nation, we are in trouble. The utter failure of our policies over the last seven years has made the position of the United States very fragile."

realizing that they cannot be truly great without the help of others.

What I am getting at is the lack of a "human dynamic" in this country. This is partly due to the type of society we have today, but there is no need to change the physical way we live. There is, however, a need to change the moral way we live.

Neglecting those around us does a disservice to everyone in this country. You might say that this is a socialist argument, but there is no need for socialism. What there is a need for is an emphasis on the brotherhood of man.

There is nothing more wasteful than a system without morals, cap-

italistic or not. What we have in this country is a wasteful system. What is needed are some morals. The truest form of capitalism runs by using greed for good. In essence, what serves one serves all. But that is not the case in America today.

As a nation, we are in trouble. The utter failure of our policies over the last seven years has made the position of the United States very fragile. The mere mention of instability in any sector of the economy sends the indexes for a ride.

Our economy has been subsiding on artificial strength. Our friends regard us as more black sheep than leader, while our enemies regard us as an all-powerful nuisance. Our government forces its hand abroad, even as the foundation at home is crumbling.

The neglect of the home-front is astonishing and sobering. We are at the mercy of skyrocketing debts and conflicting doctrine. Only a conscious reexamining and redirection of policy can set us back on track. Until then, the United States will continue to suffer the unfortunate adversity that it is currently experiencing.

Ultimately, America is still clinging to its status as a superpower. Any country which has virtually dominated the world over a century deserves at least a little reprieve. But the country is on notice.

An inability to change

Meat, Kosovo, and your next President

Akira Rattenbury
Staff Writer

USDA inspections in 1996 found that 7.5% of our nation's meat is contaminated with salmonella. Ethnic Serbs and Albanians, like Jews and Muslims or Hutus and Tutsis, have been in extended conflict since the 14th century. Historically, presidential candidates make high-and-mighty campaign goals which never materialize.

How are these topics related? All three are in the news currently. All three are characterized by an inability to change.

Recently, the USDA recalled 143 million pounds of meat, affecting mostly public schools across the nation. Topps Meat Company went bankrupt in 2007 after recalling over 21 million pounds of E. coli contaminated meat. ConAgra, one of the 5 or so companies which process nearly 80% of our nation's meat, recalled 19 million pounds in 2002 from E. coli contamination. Further back, Hudson Foods Co. recalled 25 million pounds of beef in 1997 due to listeria contamination.

Kosovo declared independence on February 17. The news was ushered in by renewed violence and rioting by the Serbian minority. Kosovo declared inde-

pendence following nearly 10 years under UN transitional administration as a region of Serbia. During the 1990's, Slobodan Milosevic, then leader of Serbia, stripped Albanian power and exercised a brutal reign of terror in retaliation for prior atrocities. Power shifts in the region in WWI, during the Balkan War of 1912 and throughout the 20th century trace back to original religious and ethnic tensions when Ottoman rulers defeated Serbians in the Battle of Kosovo in 1389. Horrible

"Despite campaign claims to be the harbinger of change, no candidate from either party will completely mend our nation's woes. The best we can hope for is piecemeal legislation to plug leaks, and, of course, more spending."

acts of violence between Serbs and Albanians pock Kosovo's history.

McCain is the Republican presidential nominee, while the media continues to hype the "intense" battle between Clinton and Obama for the Democrat ticket. Candidates of "change" have been dime-a-dozen in presidential campaigns. Democratic contenders Hillary Clinton and Barack Obama both claim to

be working for change. Kerry and Gore both ran for change. Bush Jr. won in 2000 as, "the Reformer with Results." Carter in 1976 was, "A Leader, For a Change." However, we still have crises in healthcare, education, social security, etc. Only change I've seen from either party? Increased federal spending.

What is my point?

Change is inevitable, but real change is rare. Despite calls from the USDA and legislators to ensure food safety, another meat recall will happen in the near future.

Despite Kosovo's promising sovereignty, history has shown that the region is far from stable. Serbia, China and Russia haven't even recognized Kosovo as a country.

Despite campaign claims to be the harbinger of change, no candidate from either party will completely mend our nation's woes. The best we can hope for is piecemeal legislation to plug leaks, and, of course, more spending.

However, trying to change is good. Receiving a 44% on a test can be disheartening. Heck, you may fail a few tests while you attend CSM. Don't get discouraged. If humanity can endure semi-monthly meat recalls, endless ethnic violence, and ineffectual presidents, you can scrape by with a few F's. Just think: if you go the rest of your CSM career without failing another test, you're above the bar of humanity's ability to change.

THE GRAVEDIGGER

Geek of the Week, huh? We have a whole section discussing how lame this school really is. For ten minutes of your life, you get to read about the extensive cable collection or the favorite, retarded joke of a newly-discovered nerd at Mines.

I don't care if the nerdiest thing you did was spend prom night re-routing your computer to get a 50% faster internet connection for World of Warcraft.

"So when did you realize you were a geek?" Translation: when were you socially rejected and were too chicken-shit to stop trying? I'm not saying you shouldn't be an individual; I'm saying you need to start having friends. I have many friends who are not liked by everybody, who aren't athletes, or who are much smarter than they should be. The reason they're my friends is that they realize studying is not everything.

Don't even try to pull that "well you just got everything going for you" on me, because I don't. I get teased like everybody else, I just don't hide in my room and study with a mindset that, "when they work for me I'm going to fire them."

Why can't we salute the people who are normal, too? I know we are known as a smart-school, but come on. I would like to give a shout out to the people who get out there, to the people who come down to pick-up basketball and miss every shot, to the morbidly obese guy who walks on the treadmill, and to the ugly-ass guy who still has the decency to open the door for a girl.

Not you, Geeks. You people pride yourself on being socially

rejected, because if you had any decency you would realize how incredibly stupid it is to be in that article. Now you idiots are saying "well if you don't like it that much, then just don't read it." Well, in the words of my great-great grandfather, "up yours." Why don't we salute the advanced-minded anti-geek? Now you're coming with the saying, "why are you attacking us – it's the paper that writes it!" No, the paper was the last straw. You people were pissing me off way before I started to read the article.

By the way – Eberhart, you are a geek, but you are right. It is degrading, not to you or the people in the article, but to this school. Why do we have to be known as the school where everybody hates his life and studies all the time? I say that people start lightening up and stop hiding in their rooms. Say "hi" to the person next to you instead of thinking that he's stupid for a conversation. Stop being a moron and start opening the door for girls – they don't have cooties; don't get too excited while you're doing it either – it's normal. Look, I know it's hard to get your first rejection, but grow a pair and get over it. A talk with a friend is going to be far more comforting than a talk with your robot – this goes for the girls too.

Facebook status: The Gravedigger is going to start memorizing the encyclopedia, because the hot chick he likes is only into geeks.

Good Night
Good Luck
The Gravedigger

Fool's Gold

"Deep Fried so you know its good"



This Headline not good enough for Jay Leno

Can a Headline be Headlined for Headlining?

Mike Stone
Resident Scientist-ologist

Michael Stone, a devilishly handsome, extremely athletic and astonishingly humble writer for the Colorado School of Mines Oredigger Newspaper is venturing into the national broadcasting industry. He plans to take over late night television by implementing three key steps: 1) Initiation 2) Expansion 3) World Domination.

Last Monday, Michael was watching Jay Leno on NBC after rescuing a baby from a burning building and helping an old lady across the street. (She is out of the ICU and expected to completely recover from the truck accident.) He watched Jay with his roommates as the normal headlines appeared.

Animal costumes, funny typos, and wedding announcements flashed before the screen faster than a Brittany Spears underwear shot. It was then that Michael became exuberant and proceeded to stab his couch with a pencil screaming, "I will be the duke of late night! Leno will retire, O'Brien will move up, and Carson will binge as I take the second spot in the lineup!"

"I don't know what got into him," explained his roommate, Zack. "After he screamed, he turned around and punched me, breaking my nose. I got surgery just this past weekend."

Mr. Stone's first step in his devious plans for late night domination include writing an article for the school newspaper. There's been no word yet as to what the

article will be on. Sources close to Mr. Stone rumor the article to be about Honey Bees and Don Rickles reviving an off-Broadway play.

After the article is spread among a small student base at the Colorado School of Mines, he plans to send the article to Mr. Leno. If the article makes the lineup, the brief glimpse of fame will skyrocket Mr. Stone's star appeal. Paparazzi will instantly flock to Golden, Colorado, to take pictures of him as he enters and exits his car on the way to class and lacrosse practice. This expansion of fame will undoubtedly lead to his own late night show.

From there, the gods will shine their light on Mr. Stone's good humor and provocative questions about movies that he hated from the very start.

Of course no article about Jay

Leno would be complete without mentioning band leader Kevin Eubanks. [Insert vegetarian joke here.]

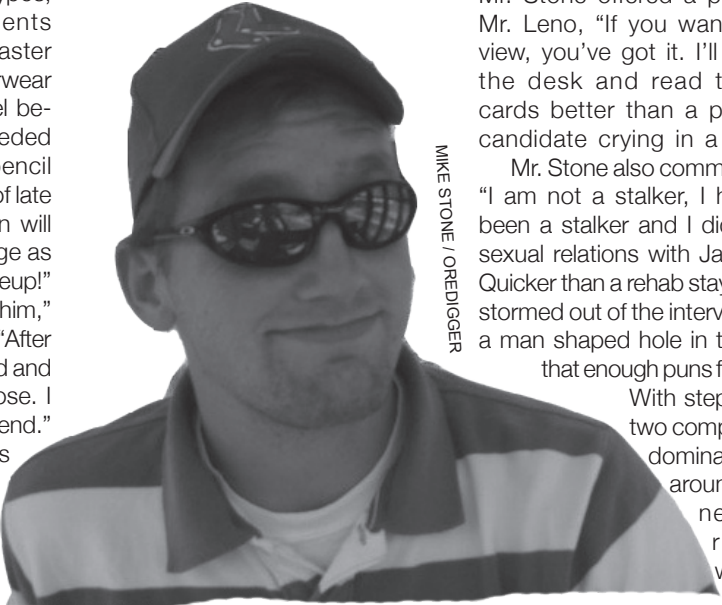
"I only wish his dreams come true soon. I mean, think of the children," added his other roommate Danny. At only 20 years old, Michael Stone has over three hundred children of his own and from all over the world. (He was able to secure custody by going through Angelina Jolie's lawyer.)

He has threatened to let them spend their weekends at Richard Simmons's house if he does not get a show by his 22nd birthday. The excessive jazzercise at the Simmons household will ultimately lead to heart palpitations and eventually death, since everyone knows Richard Simmons is a robot.

In a brief interview for this article, Mr. Stone offered a proposal to Mr. Leno, "If you want an interview, you've got it. I'll sit behind the desk and read those cue cards better than a presidential candidate crying in a pantsuit."

Mr. Stone also commented that, "I am not a stalker, I have never been a stalker and I did not have sexual relations with Jamie Lynn." Quicker than a rehab stay, Mr. Stone stormed out of the interview leaving a man shaped hole in the wall. [Is that enough puns for you yet?]

With steps one and two complete, world domination is just around the corner for this renegade writer.



MIKE STONE / OREDIGGER

CoorsLab Expanded Minor in Consideration

Matthew Pusard
Beer Scholar

After years of Coors Lab being the most popular course at the Colorado School of Mines, the lab course will now be associated with a 3 credit hour classroom course. After much deliberation by the president's office, the classroom course will take place in the Weaver West Dormitory which will be gutted and turned into a micro brewery over the summer.

"We had to do something," said Patrick Snow, the teacher of the Coors Lab course. "Not only does Coors Lab have the best attendance out of any class at Mines™, it is so popular that we've had classes held constantly from 10 AM to 4 PM Mondays through Saturdays just to keep up with demand from the student body."

Golden City Brewery is said to be irate about the renovation of Weaver West because the company will have to change its slogan to "3rd largest brewery in Golden."

The new classroom course is just one small step in Mines offering a minor in "Advanced Ethanol Studies." The minor would include courses examining the effects of ethanol on the human body, teaching students how to ferment their own ethanol, and testing the different flavors of various ethanol-enhanced drinks.

Anheuser Busch will also be participating in the minor. The company will be renting out the Old Foss building and setting up a tiny beer producing

facility inside. (This will again demote Golden City Brewery to 4th largest brewery in Golden.)

Despite Golden long being a Coors town, many students are very excited about their new Busch Examination course.

Sources say there will be no shortage of faculty for this minor because over half of Mines's current staff has volunteered for the teaching positions in ethanol studies classes. Snow explained this phenomenon by saying, "It is a revolutionary field of study. It's the first time that the fuel for our cars and the fuel for our Friday nights are one in the same. Who wouldn't want to be a part of this?"

Ideally, as a new addition to Mines' 10-year plan, Advanced Ethanol Studies will turn into a full blown major in a few years. Once the major is instituted, companies such as Jack Daniel's Distillery, Fortune Brands (the makers of Jim Beam), and New Belgium Brewing Company will start teaching their own classes. Research in this department will include "the cure for beer goggles" and the development of "the never ending keg."

This new major at Mines™ is expected to turn the campus from the most miserable campus in the nation, according to a Princeton survey a few years ago, into "the happiest place on Earth." Disney is currently examining the basis of a lawsuit over that phrase, despite CSM having a valid claim to it with the new department in tow.

STANDARD DEVIATION

BY CODERED

10-06

WWW.CODEREDCOMICS.COM

Never judge a book by its cover.

Image isn't everything.

It's not about gender, race, or religion.

The ISSUES are what really matter.

Know where you stand and who will stand with you!

Make up your own mind @

vajoe.com -> candidate calculator

ontheissues.org & factcheck.org

Know who, know what, and know why!

Your vote = how!

~~~~~

**Voter Registration for any state @ iwanttovote.com**

♥: CSM Democrats



# Shipwreck leads to beer shortage

## Hops, Wheat, and Barley all take a swim

**Cameron Frisby**  
Recently Rescued Sailor

The high seas saw a tragedy of epic proportion last Thursday, the sinking of the Drunken Lobster (the world's largest cargo ship). To further the catastrophe, the vessel was bringing a two-month supply of Bavarian hops, wheat, and barley for all the major American breweries. Friday night, bars and college campuses across the nation shared a moment of silence for the difficult times ahead.

Fraternity brother John "keg-stand" Jackson tearfully pronounced his fears, "I think this will be the first Spring Break ever that college kids will be getting drunk off of wine coolers." Let us hope it doesn't come to that. Budweiser, Coors, and Miller brewing companies recently released their plan to deal with the crisis: remove whatever little flavor previously existed in their beer. The brewers' advocate bravely declared today that "by using one-

third of the usual amount of ingredients, we can easily make it past the loss of the Drunken Lobster." This change has gone over very well with beer drinkers everywhere. Apparently, the decrease in ingredients has lead to a more palatable beer. "It no longer tastes like rancid milk!" one drunken party boy gleefully exclaimed this past Saturday night. Additionally, marine biologists have started reporting strange behavior in North Atlantic sea life. The contents of the Drunken Lobster began to ferment shortly after colliding into the sea floor. "The contents of the Drunken Lobster began to ferment shortly after colliding into the sea floor. Also, the broken ship landed close to a volcano on the Mid-Atlantic ridge, effectively catalyzing the beer brewing process. Upon release of this news, many crazy homeless people and bored university students



COURTESY WIKIMEDIA COMMONS



**Shipwreck and marine life:** The supertanker collided with the shoreline after loosing navigation equipment. (Top) The beer inside spilled into the ocean effecting fish and spelunkers across the Atlantic Ocean and Europe. (Bottom)

Sudoku

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 4 |   |   |   | 8 |   |   |   |   |
|   |   | 2 |   |   | 3 | 6 |   |   |
| 8 | 6 | 1 |   |   |   | 2 |   | 3 |
|   |   |   |   | 9 |   |   | 5 |   |
|   |   |   | 8 |   | 5 |   |   |   |
|   | 2 |   |   | 1 |   |   |   |   |
| 5 |   | 3 |   |   |   | 9 | 7 | 6 |
|   |   | 8 | 6 |   |   | 5 |   |   |
|   |   |   |   | 7 |   |   |   | 1 |

\*\*\*\*Reserve this spot for something funny!!!

Last Week's Evil Solution:

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 8 | 1 | 2 | 3 | 5 | 7 | 6 | 9 | 4 |
| 3 | 4 | 6 | 8 | 1 | 9 | 2 | 7 | 5 |
| 5 | 9 | 7 | 4 | 2 | 6 | 1 | 3 | 8 |
| 4 | 8 | 5 | 9 | 3 | 1 | 7 | 2 | 6 |
| 9 | 2 | 1 | 7 | 6 | 5 | 4 | 8 | 3 |
| 6 | 7 | 3 | 2 | 4 | 8 | 5 | 1 | 9 |
| 1 | 6 | 8 | 5 | 7 | 3 | 9 | 4 | 2 |
| 2 | 5 | 9 | 1 | 8 | 4 | 3 | 6 | 7 |
| 7 | 3 | 4 | 6 | 9 | 2 | 8 | 5 | 1 |

Puzzle by websudoku.com

This Week's Difficulty: Hard

STANDARD DEVIATION

BY KYLE SANDERS

IT'S BEEN TEN DAYS AND NO BREAK, I QUIT!

YOU CAN'T GO, I NEED YOU.

GOOD LUCK WITHOUT A LIVER!!

YEAH, WE NEED TO HAVE A LITTLE CHAT ABOUT MY SOLITARY CONFINEMENT DOWN HERE.

04-07

WWW.CODEREEDCOMICS.COM

# Format war comes to an end

## Japanese company, Sony, hired to end America's Iraq War

**Tim Weilert**  
Technology Correspondent

This past week, the longtime war between high definition movie disc formats HD-DVD and Blu-Ray came to a bloody end. As the dust settled on the battlefield, Sony came out the victor, as Toshiba lay bruised and beaten. Perhaps more heated than the violence in the Middle East, tensions between the formats had reached a breaking point and a full out battle ensued. Unfortunately for

Toshiba, and the approximately 6 people who bought HD-DVD players, their format has gone the way of the Betamax tape (or buffalo, choose your comparison). Shortly after their victory, Sony received an urgent phone call from U.S. President George W. Bush. "Congratulations," said Bush. "Hey-

hows about you guys help me out with a little problem..." That's where the recorded phone call had to cease due to the three minute limit. Representatives from Sony immediately flew to the White House, where talks of transferring responsibility for ending the Iraq War ensued. By the end of the day, Sony had accepted the

\$399,999,999,999.99 cash offer to bring an end to yet another war. "With support for our new high definition disc we'll be able to take on anyone!" said Tony Harrison, a Sony representative. The plan for the first wave of action, as it stands right now, is to airdrop Playstation 3 consoles and HD-TVs into terrorist hotbeds. Following the airdrops, analysts expect violence levels to decrease dramatically. According to CIA spokesman Miles Thomas, "The picture will be so clear and

realistic that people will never want to leave their homes, not for food, water, or even terrorist activities." Similar tactics have been used in the past. During the Vietnam War, vinyl William Shatner albums were dropped on large portions of Vietnamese jungle, resulting in loss of plant and human life. In 1986 the U.N. passed an amendment to the Geneva Convention that prohibited using such tactics. Fortunately for Sony, the amendment only covered media created by Shatner.





**Extramural Basketball Tournament vs CCU**

This weekend, three teams of Orediggers represented CSM in the extramural B-ball tournament vs. CCU. The Shockers, the Shooter McGavins, and Outta Control lit up the competition, facing off against what CCU had to offer. They swept the stanings finishing 1st, 2nd, and 3rd. Congratulations on your dunk-worthy performances!



SHOCKERS



SHOOTER MCGAVINS



OUTTA CONTROL



| SPORT                   | ENTRY DEADLINE |
|-------------------------|----------------|
| BADMINTON DOUBLES       | THURSDAY, 2/28 |
| TABLE TENIS DOUBLES(CR) | THURSDAY, 2/28 |



| MATCH                  | RESULT    |
|------------------------|-----------|
| 2/17 RUGBY VS UNC      | CHECK WEB |
| 2/23 LACROSSE VS METRO | CHECK WEB |



| GAME                                  | DATE | TIME          |
|---------------------------------------|------|---------------|
| LACROSSE VS UNIVERSITY NEBRASKA-OMAHA | 3/1  | 2PM IM SOUTH  |
| RUGBY VS COLORADO COLLEGE             | 3/2  | 12PM IM NORTH |